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L24: Entry 228 of 233

File: DWPI

Dec 18, 2002

DERWENT-ACC-NO: 2003-260810  
DERWENT-WEEK: 200326  
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TITLE: Three-dimensional super crystal of composite-metal ultrafine particle for electronic devices, is formed from ultrafine particle consisting of a metal nucleus and an organic shell

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

EBARA CORP

EBAR

PRIORITY-DATA: 2001JP-0168701 (June 4, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002363127 A	December 18, 2002		007	C07C051/41

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2002363127A	June 4, 2001	2001JP-0168701	

INT-CL (IPC): B22 F 1/00; B22 F 1/02; C07 C 51/41; C07 C 51/43; C07 C 53/10; C07 C 53/126; C07 C 59/265; C30 B 29/66

ABSTRACTED-PUB-NO: JP2002363127A  
BASIC-ABSTRACT:

NOVELTY - Three-dimensional super crystal of composite-metal ultrafine particle comprises metal and shell comprising organic compound.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) manufacture of three-dimensional super crystal of composite-metal ultrafine particles that comprises dispersing composite-metal ultrafine particle in a solvent, gradually reducing solvent temperature and growing crystals of composite-metal ultrafine particles; and

(2) three-dimensional super crystal of composite-metal ultrafine manufacturing apparatus comprises solvent tank and at least one temperature control apparatus for controlling the temperature of solvent in tank or dry control apparatus to control drying of solvent so that crystals of composite-metal ultrafine particles may grow.

USE - As raw material for electronic devices and optical devices.

ADVANTAGE - The three-dimensional super crystal of composite-metal ultrafine particle has a face-centered cubic close packed structure or body centered cubic structure and can be stably produced in industrial scales.

DESCRIPTION OF DRAWING(S) - The figure shows the crystal structure of three-dimensional super crystals of composite-metal ultrafine particles.

CHOSEN-DRAWING: Dwg.1/7

TITLE-TERMS: THREE DIMENSION SUPER CRYSTAL COMPOSITE METAL ULTRAFINE PARTICLE

ELECTRONIC DEVICE FORMING ULTRAFINE PARTICLE CONSIST METAL NUCLEUS ORGANIC SHELL

DERWENT-CLASS: E19 J04 L03 M22 P53

CPI-CODES: E05-L; E05-M; E05-N; E10-C04K; J04-A04; L03-J; M22-H02;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

J0 J011 J1 J171 M225 M231 M262 M281 M320 M416  
M620 M781 M904 M905 M910 Q454 Q466 R032

Specific Compounds

01356K 01356U

Registry Numbers

1356U

Chemical Indexing M3 \*02\*

Fragmentation Code

A547 A960 C710 J0 J011 J1 J171 M225 M231 M262  
M281 M320 M411 M510 M520 M530 M540 M620 M630 M781  
M904 M905 Q454 Q466 R032

Specific Compounds

A9X6XK A9X6XU

Chemical Indexing M3 \*03\*

Fragmentation Code

A960 C801 C802 C803 C804 C805 C806 C807 H714 H721  
J011 J171 M210 M211 M212 M213 M214 M215 M216 M220  
M221 M222 M223 M224 M225 M226 M231 M232 M233 M262  
M280 M281 M320 M411 M510 M520 M530 M540 M620 M630  
M781 M904 M905 Q454 Q466 R032

Markush Compounds

200088-58301-K 200088-58301-U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1356U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-068670

Non-CPI Secondary Accession Numbers: N2003-206775